Pacific Northwest Aquatic Monitoring Partnership

The purpose of the Pacific Northwest Aquatic Monitoring Partnership (PNAMP) is to provide a forum for coordinating state, federal, and tribal aquatic habitat and salmonid monitoring programs.

Improved communication, shared resources and data, and compatible monitoring efforts provide increased scientific credibility, cost-effective use of limited funds and greater accountability to stakeholders.

PNAMP provides leadership through the development and the advancement of recommendations and agency level agreements that are considered for adoption by the participating agencies.

PNAMP has adopted the following goals.

- Improve communication between monitoring programs across state, tribal, and federal organizations.
- Improve scientific information needed to inform resource policy and management questions and decisions.
- Seek efficiencies and cost-effectiveness across monitoring programs through compatible and cooperative monitoring efforts.
- Promote science-based credibility of monitoring and assessment efforts.
- Share resources and information between monitoring programs across state, tribal, and federal organizations.

To succeed, PNAMP will require policy support and direction by member organizations, commitments of technical resources and staff time and ultimately, funding for the coordination itself.

In addition to adopting a monitoring coordination structure with Steering Committee guidance, PNAMP has identified and developed working groups for five key elements of monitoring: watershed condition monitoring, effectiveness monitoring, fish population monitoring, estuary monitoring, and data management.

PNAMP has adopted a Charter to formalize the agreement among federal, state, and tribal entities to participate in the coordination of scientific monitoring programs. PNAMP has also developed a coordination plan to facilitate aquatic monitoring in the Pacific Northwest titled, "Strategy For Coordinating Monitoring of Aquatic Environments In the Pacific Northwest." These documents along with the current year's work plan and budget can be accessed at www.reo.gov/PNAMP.

For more information contact Jen Bayer at 509-538-2299 x 273 or jennifer bayer@usgs.gov.

FY2005 initiatives (by each technical workgroup): Watershed Monitoring Workgroup

- Development of a common probabilistic survey design ("Universal Survey Design") to allow examination of changes and trends over time at broad regional scales.
- Conduct side-by-side protocol test in which field attributes and sampling protocols are compared across numerous agencies.

Effectiveness Monitoring Workgroup

- Development of a regional data dictionary for effectiveness monitoring reach scale and watershed scale physical, chemical, and biological attributes.
- Development of a list of high level indicators for reporting on effectiveness of projects
- Completion of a regional plan to establish a network of intensively monitored watersheds
- Development of common sampling protocols for testing effectiveness of projects at both the reach and watershed scale.

Fish Population Monitoring Workgroup

- Host workshops:
 - Management & Science: join scientists and fish managers to identify overall fish population RME needs in the Pacific Northwest
 - "Practitioner's Workshop". "what worked, what didn't" meeting between those developing protocols and processes and those attempting to implement M&E projects/protocols.
- Plan side-by-side protocol tests in which field attributes and sampling protocols are compared across numerous agencies.
- Support Large-Scale Monitoring Symposium at the American Fisheries Society meeting November 1-3, 2004, including supporting presentations and publication of proceedings.
- Initiate catalogue of Fish Population Monitoring Efforts in the Pacific Northwest, beginning with Columbia River Basin pilot subbasins.
- Review Fish Monitoring Protocols from the draft paper of: David H.
 Johnson (et al). Review, assist with protocol publications plan, and
 facilitate implementation of protocols by and through PNAMP partners.

Data Management Workgroup

- Join in regional coordination workshops hosted by the Northwest Environmental Data Network (NED) and others, including: regional QA/QC workshop, regional spatial definitions, data networking workshop, project management data workshop.
- Conduct a needs assessment of the PNAMP technical workgroups, including the assessment of data needs; identification of data gaps, estimate of costs; best practices on the measurement, collection and

tracking of data; establishment of standards (metadata, naming conventions, etc.).

Next Steps:

- PNAMP is still seeking partners to become signatory to the Charter as well as additional technical participants for all topics.
- Emerging technical topics for PNAMP to assist with include estuary monitoring and large river monitoring.

Documents or additional information may be obtained by contacting Jennifer Bayer at 509-538-2299 x 273 or jennifer_bayer@usgs.gov.

Pacific Northwest Aquatic Monitoring Partnership (PNAMP) Members

Tribal Entities

Columbia River Intertribal Fish Commission Confederated Tribes of the Colville Reservation Northwest Indian Fisheries Commission

State Agencies

California Department of Fish and Game
Oregon Watershed Enhancement Board
Washington Interagency Committee for Outdoor Recreation
Washington Department of Ecology
Washington Governor's Salmon Recovery Office

Federal Agencies

Bonneville Power Administration

National Oceanic and Atmospheric Administration Fisheries

U.S. Army Corps of Engineers

US. Bureau of Land Management

U.S. Bureau of Reclamation

U.S. Geological Survey

U.S. Environmental Protection Agency

U.S. Forest Service

Regional Entities

Columbia Basin Fish and Wildlife Authority Northwest Power and Conservation Council Pacific States Marine Fisheries Commission

PNAMP Contact Information

PNAMP Coordinator:

Jennifer Bayer 509.538.2299 x 273

jennifer_bayer@usgs.gov

PNAMP Assistant

Debra Niemann 503 808-2267

debra niemann@usgs.gov

Workgroup Leads:

• Watershed Condition Monitoring

Steve Lanigan 503.808.2261

slanigan@fs.fed.us

• Effectiveness Monitoring

Bruce Crawford 360.902.2956 brucec@iac.wa.gov

Fish Population Monitoring

Keith Wolf 425.788.3402 kwolf@kwaecoscience.com

• Data Management

Stewart Toshach 206 860-3495 stewart.toshach@noaa.gov Joy Paulus 360 902-2954 joyp@iac.wa.gov

Jennifer O'Neal

joneal@ttfwi.com

425.482.7779

• Estuary Monitoring

Julia Bos 360 407-6674 jbos461@ecy.wa.gov Jason Karnezis 503 226-1565 x235 karnezis@lcrep.org